

WEST Search History

Hide Items

Restore

Clear

Cancel

DATE: Tuesday, June 22, 2004

Hide?	Set Name	Query	Hit Count
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L47	L46 and (disk near5 address\$1)	10
<input type="checkbox"/>	L46	L45 and (source near5 file\$1)	23
<input type="checkbox"/>	L45	L44 and copy\$	47
<input type="checkbox"/>	L44	l39 and inode	59
<input type="checkbox"/>	L43	(copy\$ and inode\$1).ti.	3
<input type="checkbox"/>	L42	L41 and shadow	7
<input type="checkbox"/>	L41	L40 and (disk near5 address\$1)	10
<input type="checkbox"/>	L40	L39 and (snapshot near5 director\$)	65
<input type="checkbox"/>	L39	snapshot\$1 near5 file\$1	596
<input type="checkbox"/>	L38	'copy on write'	0
<input type="checkbox"/>	L37	5764972 .uref.	69
<input type="checkbox"/>	L36	L35 and (file\$1 same inode\$1)	6
<input type="checkbox"/>	L35	L34 and (network near5 file\$1)	44
<input type="checkbox"/>	L34	(data near5 block\$1) same (data address)	2926
<input type="checkbox"/>	L33	L32 and (dataset\$1 same empty)	7
<input type="checkbox"/>	L32	L31 and (disk near5 address)	14
<input type="checkbox"/>	L31	L30 and (data near5 block\$1)	24
<input type="checkbox"/>	L30	L29 and (copy\$ near5 snapshot\$1)	26
<input type="checkbox"/>	L29	l5 and (multiple near5 snapshot\$1)	46
<input type="checkbox"/>	L28	L25 and (destinat\$ near5 file)	0
<input type="checkbox"/>	L27	L25 and (destinat\$ near5 file)	0
<input type="checkbox"/>	L26	L25 and (destinat\$ near5 file)	0
<input type="checkbox"/>	L25	L24 and source	7
<input type="checkbox"/>	L24	L23 and (shadow near5 inode)	20
<input type="checkbox"/>	L23	L22 and modif\$	20
<input type="checkbox"/>	L22	L21 and generat\$	20
<input type="checkbox"/>	L21	L20 and copy\$	20
<input type="checkbox"/>	L20	L19 and (shadow near5 inode)	20
<input type="checkbox"/>	L19	L18 and (network near5 file\$)	93
<input type="checkbox"/>	L18	L17 and inode	117
<input type="checkbox"/>	L17	L16 and (data near5 block\$1)	892

<input type="checkbox"/>	L16	l5 and (disk near5 address)	1294
<input type="checkbox"/>	L15	L14 and (disk near5 address)	0
<input type="checkbox"/>	L14	L13 and destinat\$	4
<input type="checkbox"/>	L13	L12 and source	18
<input type="checkbox"/>	L12	(file\$1 and snapshot\$1).ti.	49
<input type="checkbox"/>	L11	(source\$ and target\$ and file\$1).ti.	49
<input type="checkbox"/>	L10	(inode and snapshot\$).ti.	8
<input type="checkbox"/>	L9	(inode and snapshot\$).ti,ab.	30
<input type="checkbox"/>	L8	L7 and inode	2
<input type="checkbox"/>	L7	L6 and (disk near5 address)	7
<input type="checkbox"/>	L6	L5 and ((meta near5 data) same (data block\$1))	50
<input type="checkbox"/>	L5	(file same director\$)	21612
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L4	US-6625704-B2.did.	1
<input type="checkbox"/>	L3	US-6625704-B2.did.	1
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L2	(direct\$ and snapshot\$).ti.	2
<input type="checkbox"/>	L1	(file\$1 and direct\$ and snapshot\$).ti.	0

END OF SEARCH HISTORY

WEST Search History

Hide Items

Restore

Clear

Cancel

DATE: Wednesday, June 23, 2004

Hide?	Set Name	Query	Hit Count
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L26	L25 and (data near5 block\$1)	21
<input type="checkbox"/>	L25	L24 and snapshot\$1	22
<input type="checkbox"/>	L24	L23 and (disk\$1 near5 address\$1)	85
<input type="checkbox"/>	L23	(file\$1 near5 inode\$1)	406
<input type="checkbox"/>	L22	(4875159 6484186 20030140070 20030140204 20030182253)! [pn]	10
<input type="checkbox"/>	L21	l18 and inode	12
<input type="checkbox"/>	L20	L19 and inode	7
<input type="checkbox"/>	L19	L18 and shadow	13
<input type="checkbox"/>	L18	L17 and modify\$	62
<input type="checkbox"/>	L17	L16 and delet\$	63
<input type="checkbox"/>	L16	L14 and copy\$	69
<input type="checkbox"/>	L15	L14 and cop\$	3
<input type="checkbox"/>	L14	L12 and disk\$1	69
<input type="checkbox"/>	L13	L12 and disk	71
<input type="checkbox"/>	L12	L11 and snapshot\$1	77
<input type="checkbox"/>	L11	L10 and unix	506
<input type="checkbox"/>	L10	L9 and (target near5 file\$1)	1600
<input type="checkbox"/>	L9	source near5 file\$1	18912
<input type="checkbox"/>	L8	L7 and (target or destinat\$)	0
<input type="checkbox"/>	L7	L6 and source	4
<input type="checkbox"/>	L6	L5 and address	6
<input type="checkbox"/>	L5	(snapshot\$1 and disk\$1).ti.	24
<input type="checkbox"/>	L4	(snapshot\$1 and unix).ti.	0
<input type="checkbox"/>	L3	L2 and unix	8
<input type="checkbox"/>	L2	L1 and (cop\$ or transfer\$)	19
<input type="checkbox"/>	L1	(snapshot\$1 and file\$1).ti.	49

END OF SEARCH HISTORY

WEST Search History

DATE: Wednesday, June 23, 2004

Hide?	Set Name	Query	Hit Count
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L16	L14 and ((ditto) and (disk near5 address))	0
<input type="checkbox"/>	L15	L14 and ((ditto) same (disk near5 address))	0
<input type="checkbox"/>	L14	L13 and (copy\$ near5 snapshot\$1)	1
<input type="checkbox"/>	L13	L11 and (multiple near5 snapshot)	1
<input type="checkbox"/>	L12	L11 and (first near5 snapshot)	0
<input type="checkbox"/>	L11	20020083037 .pn.	2
<input type="checkbox"/>	L10	L9 and (multiple near5 snapshots)	9
<input type="checkbox"/>	L9	L8 and (file near5 system)	20
<input type="checkbox"/>	L8	L7 and (inode or vnode)	20
<input type="checkbox"/>	L7	(most recent) near5 (snapshot\$1)	109
<input type="checkbox"/>	L6	L5 and (disk address)	7
<input type="checkbox"/>	L5	L4 and (multiple near5 snapshots)	20
<input type="checkbox"/>	L4	'most recent snapshot'	63
<input type="checkbox"/>	L3	(inode\$1) same ('same' address)	2
<input type="checkbox"/>	L2	(inode\$1) near5 ('same' address)	0
<input type="checkbox"/>	L1	ditto disk address	8

END OF SEARCH HISTORY

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 6341341 B1

Using default format because multiple data bases are involved.

L7: Entry 1 of 4

File: USPT

Jan 22, 2002

US-PAT-NO: 6341341

DOCUMENT-IDENTIFIER: US 6341341 B1

TITLE: System and method for disk control with snapshot feature including read-write snapshot half

DATE-ISSUED: January 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grummon; Jeffrey L.	Milford	NH		
Franklin; Chris R.	Merrimack	NH		

US-CL-CURRENT: 711/162

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 2. Document ID: US 6205450 B1

L7: Entry 2 of 4

File: USPT

Mar 20, 2001

US-PAT-NO: 6205450

DOCUMENT-IDENTIFIER: US 6205450 B1

**** See image for Certificate of Correction ****

TITLE: Computer system capable of restarting system using disk image of arbitrary snapshot

DATE-ISSUED: March 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kanome; Namiko	Tokyo			JP

US-CL-CURRENT: 707/203; 707/204, 707/206

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw D
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☐ 3. Document ID: US 20030158863 A1

L7: Entry 3 of 4

File: DWPI

Aug 21, 2003

DERWENT-ACC-NO: 2003-745679

DERWENT-WEEK: 200370

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: File system snapshot provision method in computer system, involves copying inode corresponding to source file, without copying disk address of data block when only metadata is modified

INVENTOR: HASKIN, R L; SAWDON, W A ; SCHMUCK, F B ; WYLLIE, J C

PRIORITY-DATA: 2002US-0077345 (February 15, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030158863 A1	August 21, 2003		055	G06F012/00

INT-CL (IPC): G06 F 12/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw D
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☐ 4. Document ID: US 20030158834 A1

L7: Entry 4 of 4

File: DWPI

Aug 21, 2003

DERWENT-ACC-NO: 2003-745664

DERWENT-WEEK: 200370

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: File system snapshot updating method used for e.g. data backup, involves copying data contents including shadow inode and data block referenced by disk address in shadow inode

INVENTOR: SAWDON, W A; SCHMUCK, F B ; WYLLIE, J C

PRIORITY-DATA: 2002US-0077371 (February 15, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030158834 A1	August 21, 2003		055	G06F007/00

INT-CL (IPC): G06 F 7/00

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw D
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Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

h e b b g e e f e e c h e f b e


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shadow inode append overwrite delete

Search

[Advanced Search](#)
[Preferences](#)

Web

Results 21 - 30 of about 750 for shadow inode append overwrite delete. (0.24 seconds)

[usr/bin/env python # Author: alain@onesite.org # License: GPL # OS ...](#)

... userFiles=["/etc/passwd", "/etc/shadow", "/etc/master ... cleanDir(queue,dir): # test
inode for hardlink ... debianIsPackageInstalled(pack): depends.append(pack) return ...

[www.floc.net/cgi-bin/viewcvs.cgi/ makejail/makejail?cvsroot=makejail&rev=1.16 - 30k - Cached - Similar pages](#)

[9. Interoperability with Other Operating Systems \(Solaris on Intel ...](#)

... be a pointer to a parallel "**Shadow inode**" with Solaris ... Also, the superblock has an
 additional **inode** field in ... p0 (whole disk) device, but you **append** more info ...

[www.sun.drydog.com/faq/9.html - 65k - Cached - Similar pages](#)

[Debian Reference - Debian tutorials](#)

... (**append**). ... See /usr/include/linux/fs.h for the exact definition of struct **inode** in
 the Debian GNU/Linux system. ... ls -l /etc/passwd /etc/shadow /dev/ppp /usr/sbin ...

[qref.sf.net/Debian/reference/ch-tutorial.en.html - 69k - Cached - Similar pages](#)

[\[PDF\] Storage-based Intrusion Detection: Watching storage activity for ...](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... pair of inter-related files (/etc/passwd and /etc/shadow). ... of resource exhaustion
 attacks or of reverting **inode** times ... Non-**append** changes to the system audit log ...

[www.pdl.cmu.edu/PDL-FTP/Secure/userix03.pdf - Similar pages](#)

[\[PDF\] POSIX Access Control Lists on Linux](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... the same ACL may point to the same **shadow inode**. ... Inside the **inode** specific directory,
 each EA is stored as ... to inconsistencies when files are **deleted** that have ...

[www.cs.unibo.it/~montreso/ doc/papers/PosixAccessControlInLinux.pdf - Similar pages](#)

[\[PDF\] The Google File System](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... by appending new data rather than **overwriting** existing data ... one per machine, will
 concurr- rently **append** to a ... the usual operations to create, **delete**, open, close ...

[www.cs.rochester.edu/sosp2003/papers/p125-ghemawat.pdf - Similar pages](#)

[\[PDF\] Deciding when to forget in the Elephant file system](#)

File Format: PDF/Adobe Acrobat - [View as HTML](#)

... on-write is avoided for writes that only **append** to the ... example, for programs such
 as Emacs that **overwrite** files by ... when a file is **deleted**, an **inode** is added to ...

[www.hpl.hp.com/personal/Alistair_Veitch/ papers/elephant-sosp/efs.pdf - Similar pages](#)

[David L. Levine's Hints page](#)

... rm a file by referring to its **inode** (from ls ... foo>' **shadow** | /usr/lib/nis/nisaddent
 -v **shadow** If a ... VMLINUZ initrd=/mnt/c/RedHat71/INITRD.IMG **append**="lang= devfs ...

[www.cs.wustl.edu/~levine/Hints.html - 88k - Cached - Similar pages](#)

[F file manager change history](#)

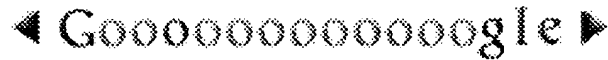
... 'fchange': **append** '.bak' extension ... (MN) (Linux) ask to confirm **delete** of **inode**
 that are read only. ... (Unix) Binary editor: cursor and **shadow** trace. ! ...

[filemanager.free.fr/fnew.htm - 59k - Cached - Similar pages](#)

GNU cfengine

... **append** method: **append** adds or modifies one or more ... makes sense is in transferring **shadow** password files. ... are additional directory references to the same **inode**. ...

www.cis.ksu.edu/~tim/cfengine/reference/cfengine-Reference.html - 101k - [Cached](#) - [Similar pages](#)



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Hit List

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[Generate OACS](#)

Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 20030195903 A1

Using default format because multiple data bases are involved.

L10: Entry 1 of 8

File: PGPB

Oct 16, 2003

PGPUB-DOCUMENT-NUMBER: 20030195903

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030195903 A1

TITLE: System and method for asynchronous mirroring of snapshots at a destination using a purgatory directory and inode mapping

PUBLICATION-DATE: October 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Manley, Stephen L.	London	CA	GB	
Owara, Shane S.	Mountain View		US	

US-CL-CURRENT: 707/201

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 20030182325 A1

L10: Entry 2 of 8

File: PGPB

Sep 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030182325

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030182325 A1

TITLE: System and method for asynchronous mirroring of snapshots at a destination using a purgatory directory and inode mapping

PUBLICATION-DATE: September 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Manley, Stephen L.	London	CA	GB	
Owara, Shane S.	Mountain View		US	

US-CL-CURRENT: 707/204

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw D
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☐ 3. Document ID: US 20030182312 A1

L10: Entry 3 of 8

File: DWPI

Sep 25, 2003

DERWENT-ACC-NO: 2003-802931

DERWENT-WEEK: 200375

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TITLE: File access redirecting method for use in snapshot, involves providing indirection level in file system inode look up procedure for accessing replicated snapshot

INVENTOR: CHEN, R C; MANLEY, S L

PRIORITY-DATA: 2002US-0100434 (March 19, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20030182312 A1</u>	September 25, 2003		036	G06F017/30

INT-CL (IPC): G06 F 17/30

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw D
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☐ 4. Document ID: US 20030158873 A1

L10: Entry 4 of 8

File: DWPI

Aug 21, 2003

DERWENT-ACC-NO: 2003-745685

DERWENT-WEEK: 200370

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TITLE: Access provision method in client information processing system, involves determining whether most recent snapshot data set includes inode corresponding to inode number specified in link

INVENTOR: SAWDON, W A; SCHMUCK, F B

PRIORITY-DATA: 2002US-0077246 (February 15, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20030158873 A1</u>	August 21, 2003		055	G06F017/30

INT-CL (IPC): G06 F 12/00; G06 F 17/30

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWOC	Draw D
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☐ 5. Document ID: US 20030158863 A1

L10: Entry 5 of 8

File: DWPI

Aug 21, 2003

DERWENT-ACC-NO: 2003-745679

DERWENT-WEEK: 200370

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: File system snapshot provision method in computer system, involves copying inode corresponding to source file, without copying disk address of data block when only metadata is modified

INVENTOR: HASKIN, R L; SAWDON, W A ; SCHMUCK, F B ; WYLLIE, J C

PRIORITY-DATA: 2002US-0077345 (February 15, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030158863 A1	August 21, 2003		055	G06F012/00

INT-CL (IPC): G06 F 12/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 6. Document ID: US 20030158834 A1

L10: Entry 6 of 8

File: DWPI

Aug 21, 2003

DERWENT-ACC-NO: 2003-745664

DERWENT-WEEK: 200370

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: File system snapshot updating method used for e.g. data backup, involves copying data contents including shadow inode and data block referenced by disk address in shadow inode

INVENTOR: SAWDON, W A; SCHMUCK, F B ; WYLLIE, J C

PRIORITY-DATA: 2002US-0077371 (February 15, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030158834 A1	August 21, 2003		055	G06F007/00

INT-CL (IPC): G06 F 7/00

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
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☐ 7. Document ID: AU 2003214039 A1, WO 2003069477 A2, US 20030158861 A1

L10: Entry 7 of 8

File: DWPI

Sep 4, 2003

DERWENT-ACC-NO: 2003-671704

DERWENT-WEEK: 200428

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TITLE: Snapshots generating method, involves storing identifier associated with initial multiple of source files and time of initial snapshot in each inode corresponding to initial multiple of source files

INVENTOR: SAWDON, W A; SCHMUCK, F B

PRIORITY-DATA: 2002US-0077129 (February 15, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 2003214039 A1	September 4, 2003		000	G06F011/14
WO 2003069477 A2	August 21, 2003	E	118	G06F011/14
US 20030158861 A1	August 21, 2003		000	G06F017/30

INT-CL (IPC): G06 F 11/14; G06 F 12/00; G06 F 17/30

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMAC	Draw Ds
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☐ 8. Document ID: CA 2165912 C, CA 2165912 A

L10: Entry 8 of 8

File: DWPI

May 25, 2004

DERWENT-ACC-NO: 1997-457927

DERWENT-WEEK: 200436

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TITLE: Write anywhere file-system layout e.g. for file server back-up - always writes new data to unallocated blocks on disk, creates snapshots for duplicate inode to be virtual read-only copies of file system

INVENTOR: HITZ, D; LAU, J ; MALCOLM, M ; RAKITZIS, B

PRIORITY-DATA: 1995CA-2165912 (December 21, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 2165912 C	May 25, 2004	E	000	G06F017/30
CA 2165912 A	June 22, 1997		093	G06F017/30

INT-CL (IPC): G06 F 17/30

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	MMAC	Draw Ds
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
INODE	4769
INODES	1073

Hit List

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20030159007 A1

Using default format because multiple data bases are involved.

L25: Entry 1 of 7

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030159007

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030159007 A1

TITLE: Deferred copy-on-write of a snapshot

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sawdon, Wayne A.	San Jose	CA	US	
Schmuck, Frank B.	Campbell	CA	US	

US-CL-CURRENT: 711/154; 711/156

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 2. Document ID: US 20030158873 A1

L25: Entry 2 of 7

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158873

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158873 A1

TITLE: Dynamic links to file system snapshots

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sawdon, Wayne A.	San Jose	CA	US	
Schmuck, Frank B.	Campbell	CA	US	

US-CL-CURRENT: 707/204

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 3. Document ID: US 20030158863 A1

L25: Entry 3 of 7

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158863

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158863 A1

TITLE: File system snapshot with ditto address feature

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Haskin, Roger L.	Morgan Hill	CA	US	
Sawdon, Wayne A.	San Jose	CA	US	
Schmuck, Frank B.	Campbell	CA	US	
Wyllie, James C.	Monte Sereno	CA	US	

US-CL-CURRENT: 707/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 4. Document ID: US 20030158862 A1

L25: Entry 4 of 7

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158862

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158862 A1

TITLE: Standby file system with snapshot feature

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Eshel, Marc M.	San Jose	CA	US	
Haskin, Roger L.	Morgan Hill	CA	US	
Sawdon, Wayne A.	San Jose	CA	US	
Schmuck, Frank B.	Campbell	CA	US	

US-CL-CURRENT: 707/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D.
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☐ 5. Document ID: US 20030158861 A1

L25: Entry 5 of 7

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158861

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158861 A1

TITLE: Providing a snapshot of a subset of a file system

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sawdon, Wayne A.	San Jose	CA	US	
Schmuck, Frank B.	Campbell	CA	US	

US-CL-CURRENT: 707/200

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 6. Document ID: US 20030158834 A1

L25: Entry 6 of 7

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158834

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158834 A1

TITLE: Writable file system snapshot with ditto address feature

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sawdon, Wayne A.	San Jose	CA	US	
Schmuck, Frank B.	Campbell	CA	US	
Wyllie, James C.	Monte Sereno	CA	US	

US-CL-CURRENT: 707/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 7. Document ID: US 6748504 B2

L25: Entry 7 of 7

File: USPT

Jun 8, 2004

US-PAT-NO: 6748504

DOCUMENT-IDENTIFIER: US 6748504 B2

TITLE: Deferred copy-on-write of a snapshot

DATE-ISSUED: June 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sawdon; Wayne A.	San Jose	CA		
Schmuck; Frank B.	Campbell	CA		

US-CL-CURRENT: 711/162; 707/202, 711/221

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUOC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
SOURCE	2919472
SOURCES	687561
(24 AND SOURCE).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	7
(L24 AND SOURCE).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	7

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Generate OACS				

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☐ 1. Document ID: US 6625704 B2

Using default format because multiple data bases are involved.

L4: Entry 1 of 1

File: USPT

Sep 23, 2003

US-PAT-NO: 6625704

DOCUMENT-IDENTIFIER: US 6625704 B2

TITLE: Data backup method and system using snapshot and virtual tape

DATE-ISSUED: September 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Winokur; Alexander	Haifa			IL

US-CL-CURRENT: 711/162; 711/100, 711/112

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWOC	Draw D
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Clear	Generate Collection	Print	Fwd Refs	Ekwd Refs	Generate OACS
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Term	Documents
US-6625704-B2	1
US-6625704-B2S	0
US-6625704-B2.DID..USPT.	1
(US-6625704-B2.DID.)USPT.	1

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Fwd Refs

Bkwd Refs

Generate OACS

Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 5819292 A

Using default format because multiple data bases are involved.

L8: Entry 1 of 2

File: USPT

Oct 6, 1998

US-PAT-NO: 5819292

DOCUMENT-IDENTIFIER: US 5819292 A

**** See image for Certificate of Correction ****

TITLE: Method for maintaining consistent states of a file system and for creating user-accessible read-only copies of a file system

DATE-ISSUED: October 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hitz; David	Sunnyvale	CA		
Malcolm; Michael	Los Altos	CA		
Lau; James	Cupertino	CA		
Rakitzis; Byron	Mountain View	CA		

US-CL-CURRENT: 707/203; 707/205

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KNOC	Draw De
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☐ 2. Document ID: NN9505229

L8: Entry 2 of 2

File: TDBD

May 1, 1995

TDB-ACC-NO: NN9505229

DISCLOSURE TITLE: Extendable Random Access Memory File System

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, May 1995, US

VOLUME NUMBER: 38

ISSUE NUMBER: 5

PAGE NUMBER: 229 - 232

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[Using Alcoa to Specify Metadata Update Ordering in a UNIX File.. - Shimizu \(Correct\)](#)

as the basic types of the system: domain **Inode**, DirEntry, LinkCount, DataBlocks From these and Freelnodes are mutually exclusive subsets of **Inode** whose union is exactly the set **Inode**. partition subsets of **Inode** whose union is exactly the set **Inode**. partition UsedInode, Freeline **Inode** By www.stanford.edu/~kannas/project/paper.ps

[Implementing the VIVA filesystem in the Linux kernel - Shankar Pasupathy \(Correct\)](#)

this clustering to compress block addresses in an **inode** from 32 bits to 1 bit, relative to traditional to compress disk block addresses in the file's **inode**. On the average Implementing VIVA in the Linux block (1K block size) in Viva. Furthermore, **inodes** in Viva can store some data to avoid fetching a www.cs.wisc.edu/~shankar/Viva/viva_implement.ps

[An Implementation of a Log-Structured File System for UNIX - Seltzer, Bostic.. \(1993\) \(Correct\) \(69 citations\)](#)

operation. In this way, there is a coherent **snapshot** of the file system at some point after each disk layout is described by an index structure (**inode**) that contains the disk addresses of some direct, disk addresses of doubly indirect blocks. The **inodes** and single, double and triple indirect blocks are www.pha.com.au/papers/usenix.1.93.ps

[Low-Cost Checkpointing and Failure Recovery in Mobile.. - Prakash, Singhal \(Correct\) \(21 citations\)](#)

failures, periodic collection of a consistent **snapshot** of the system (checkpoint) is required. the checkpointing and recovery costs. Synchronous **snapshot** collection algorithms, designed for static www.utdallas.edu/~ravip/papers/snapshot.tpds.ps

[Adaptation of the System V386 Filesystem for Linux - Monday \(1993\) \(Correct\)](#)Cache 9 2.2.2 Free **Inode** List 11 2.3**Inode** List 11 2.3 **Inodes** 13the Superblock 22 3.3 **Inode** Handling 23nondot.org/sabre/os/S3FileSystems/AdaptionOfSysVFilesystemForLinux.pdf[The Viva File System - II, Finkel \(1993\) \(Correct\) \(3 citations\)](#)

for an 8MB file with various compression ratios **Snapshots** of file system state for files 1MB (15,373 an aging VIFS file system Table 2 shows a set of **snapshots** of the file system state as it ages. We measure needed by storing a fixed amount of data in each **inode** 1 Since reading an **inode** from disk also reads ftp.mscf.uky.edu/pub/tech-reports/UK/cs/225-93.ps.gz

[Recording Distributed Snapshots Based On Causal Order Of.. - Acharya, BADRINATH \(1992\) \(Correct\) \(4 citations\)](#)

Processing Letters Aa Recording Distributed **Snapshots** Based On Causal Order Of Message Delivery Arup simple and efficient algorithm to record a global **snapshot** of a distributed system, where all messages are pig.postech.ac.kr/~clotho/paper/distr-snapshot.ps

[Performance Analysis of Dynamic Finite Versioning for.. - Merchant, Wu, Yu, Chen \(1992\) \(Correct\) \(5 citations\)](#)

processing, where a finite number of consistent **snapshots** can be derived for query access. We develop to evaluate the performance of DFV using M 2 **snapshots**. The storage overhead and obsolescence faced by www.ee.ntu.edu.tw/~mschen/paperps/dfv2sigm.ps

[Reuse Linux Device Drivers in Embedded Systems - Yang, Lee, Chang \(Correct\)](#)

Device Driver File Systems int lseek(struct **inode** *struct file *off_t, int)int read(struct *struct file *off_t, int)int read(struct **inode** *struct file *char *int)int write(struct *struct file *char *int)int write(struct **inode** *struct file *const char *int)int

www.iis.sinica.edu.tw/~paul/paul/Papers/ics98-LinuxDD.ps

Improving File System Performance for Lookups in Large Directories - Siladin (1997) (Correct) (1 citation)
 file position file structure mode file position **inode** structure access permission file size access
 file size access time data locations on disk **inode** File desc. table File desc. table Process A task
 Processes, file descriptors, file structures, and **inodes** fd = open(etc/passwd"ORDONLY)If the system
www.cs.wm.edu/~kearns/710-papers.d/Tin_710.ps.gz

Ext2fs Undeletion of Directory Structures mini-HOWTO - Tomas Ericsson Tomase (Correct)

4. Finding **inodes** for deleted

6. Locating deleted

7. Activating

www.fokus.gmd.de/linux/HOWTO/mini/pdf/Ext2fs-Undeletion-Dir-Struct.pdf

A Synchronous File Server for Distributed File Systems - Bradley Broom (1992) (Correct)

a small number of file descriptor entries (or **inodes** in Unix terminology) and the rest is used for
 into the same cylinder group as the file's **inode**, at locations highly optimised to reduce the time
 the data, then seek to the cylinder containing the **inode**, and update the **inode**. Both of these seeks and
cs.anu.edu.au/techreports/1992/TR-CS-92-12.ps.gz

Fsck - The UNIX File System Check Program - McKusick, Kowalski (1994) (Correct) (2 citations)

checking 3.3. Free block checking 3.4. Checking the **inode** state 3.5. **Inode** links 3.6. **Inode** data size 3.7.
 block checking 3.4. Checking the **inode** state 3.5. **Inode** links 3.6. **Inode** data size 3.7. Checking the data
 3.4. Checking the **inode** state 3.5. **Inode** links 3.6. **Inode** data size 3.7. Checking the data associated with
ftp.fwi.uva.nl/pub/comp/NetBSD/misc/lite2-docs/smm/03.fsck.ps.gz

A neural model of landmark navigation in insects - Möller, Maris, Lambrinos (1998) (Correct)

Experiments revealed that the insects store a "snapshot image" of the surroundings of the target
 a home direction by comparing current image and **snapshot**. A corresponding algorithmic model, the
www.ifl.unizh.ch/staff/moeller/documents/cns98.ps.gz

A r/w Waitfree Protocol-Complex is an Image of a.. - David Taylor (Correct)

been proven that the iterated immediate atomic **snapshot** model has a view complex which is a subdivided
 What does a view complex of single writer atomic **snapshot** reader [2] look like? It follows from [3, 1]
www.math.tau.ac.il/~stupp/ARCHIVE/eli.ps.gz

Highlight: A File System For Tertiary Storage - Kohl, Staelin, Stonebraker (1993) (Correct) (4 citations)

not found in FFS: the segment summary table and the **inode** map. The segment summary table describes the
 as the number of live bytes in the segment. The **inode** map contains the disk address of each file's
inode map contains the disk address of each file's **inode**, as well as some auxiliary bookkeeping
www.hpl.hp.com/personal/Carl_Staelin/Kohl93a.ps.gz

Insect Strategies of Visual Homing in Mobile Robots - Möller, Lambrinos, Pfeifer.. (1998) (Correct)

of the insects' navigation behavior is the "snapshot model" It is based on the assumption that
 on the assumption that insects store a visual **snapshot** of the surroundings at the target location, and
www.ifl.unizh.ch/staff/moeller/documents/cvnr98.ps.gz

Global Snapshots for Distributed Debugging: An Overview - Yang, Marsland (1992) (Correct) (1 citation)

Global Snapshots for Distributed Debugging: An Overview Z. Yang
 problem is that of constructing a global **snapshot** or global state of a distributed computation.
menaik.cs.ualberta.ca/pub/TechReports/1992/TR92-03/TR92-03.ps

A Flexible Persistent Architecture Permitting Trade-off.. - Hulse, Dearle (1996) (Correct)

Architecture Permitting Trade-off Between **Snapshot** and Recovery Times David Hulse Department of
 systems to be useful they must provide efficient **snapshot** and recovery mechanisms. This paper describes
persistence.cs.stir.ac.uk/pub/papers/GH-16.ps.gz

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No documents match Boolean query. Trying non-Boolean relevance query.

500 documents found. Order: relevance to query.

[The Behavior Language: User's Guide - Brooks \(1990\)](#) (Correct) (33 citations)

and the 6301. The subsumption compiler takes a **source file** as input, and depending on the target the 6301. The subsumption compiler takes a **source file** as input, and depending on the target machine publications.ai.mit.edu/ai-publications/1000-1499/AIM-1227.ps.Z

[Extending A Tool Integration Language - Mark Gisi \(1991\)](#) (Correct) (21 citations)

without modification, or even access to their **source code**, the Marvel kernel views each activity as a we want to execute an activity that compiles a **C file**. The activity needs the **C source file**, a set of www.cs.columbia.edu/~library/TR-repository/reports/reports-1991/cucs-014-91.ps.gz

[A Class library for Building Fortran 90 and - Restructuring Tools](#) (Correct)

compilers, performance analysis tools, and **source code optimizers**. It is designed as an open C parse tree, symbol table and type table for each **file** in an application project. There are five basic ftp.extreme.indiana.edu/pub/sage/sagexx_ug.ps.gz

[SPARC Verdi Compiler User's Manual - Meisels \(1994\)](#) (Correct)

: 5 3.1.1 Verdi **Source Files** :

3 2 Verdi 4 3 Operating Procedures 5 3.1 File Naming Conventions :

ftp.ora.on.ca/pub/doc/94-5463-10.ps.Z

[A Prototype of FORTRAN-to-Java Converter - Fox, Li, Qiang, Zhigang \(1997\)](#) (Correct) (4 citations)

parallel interpretation, and parallelization of **source code**, etc. 11]Thus, Java will be fast, and the application in FORTRAN consists of multiple **source files**, and each **file** has one or more program units. F2j www.npac.syr.edu/projects/javaforcse/acmspecissue/finalps/4_fox.ps

[Operating System Support For Easy Development Of Distributed File .. - Kourai \(1998\)](#) (Correct)

level to be changed without modifying the **source code** of the module. We have implemented the System Support For Easy Development Of Distributed File Systems Kenichi Kourai Shigeru Chibaz Takashi www.masuda.is.s.u-tokyo.ac.jp/~kourai/papers/kourai-pdcs98.ps.gz

[Space-saving Optimisations for the Glasgow Haskell Compiler - O'Sullivan \(1994\)](#) (Correct)

is not important. By building the suffix tree of a **source** program and then flattening it, maintaining useless information such as "the entire **source** file appears once"the entire **source file** save the ftp.dcs.gla.ac.uk/pub/glasgow-fp/authors/Bryan_O'Sullivan/Space_Savings_for_GHC.ps.gz

[Operating System Support for Easy Development of Distributed.. - Kenichi Kourai \(1998\)](#) (Correct)

level to be changed without modifying the **source code**. We have implemented this operating system System Support for Easy Development of Distributed File Systems Kenichi Kourai, Shigeru Chiba, and Takashi www.masuda.is.s.u-tokyo.ac.jp/~kourai/papers/TR98-01.ps.gz

[Changes in Web Client Access Patterns .. - Barford.. \(1999\)](#) (Correct) (56 citations)

computing facility at Boston University. The older **dataset**, obtained in 1995, is well-known in the research than would be possible using a new, different **source** of measurement. Our results fall into two locality properties, affect the potential for Web **file** caching in the network. We find that for the cs-www.bu.edu/faculty/crovella/paper-archive/traces98.ps

[Incremental Recompile for Standard ML of New Jersey - Harper, Lee, Pfennig, Rollins \(1994\)](#) (Correct) (9 citations)

Large systems are presented as hierarchical **source** groups. An automatic dependency analyzer www.cs.cmu.edu/afs/cs.cmu.edu/project/fox/mosaic/papers/incremental-recomp.ps

Shell 4.3 Users' Guide - Taylor, Barrera (1998) (Correct)

guide M B Taylor G D Barrera April 3, 1998 RCS: **Source:** home/mbt/shell/doc/RCS/shelluser.tex,v
 .4 3 Shell input file format 5 3.1 Example input file .
 dougal.chm.bris.ac.uk/programs/shell/doc/shelluser.ps

Ida - The Implementation Language - Landerl (Correct). 3 2.2 Source Files .

1 Introduction 3 2 Description 3 2.1 Header Files .

file, in which the error was found (file is the **empty** string if standard input is parsed) and the
 www.risc.uni-linz.ac.at/projects/basic/hpgp/reports/96-6/report-main.ps.gz

Using Automatic Clustering to Produce High-Level.. - Mancoridis.. (1998) (Correct) (13 citations)

to Produce High-Level System Organizations of **Source** Code S. Mancoridis, B. S. Mitchell, C. Rorres
 Graph Clustering Tool (e.g.Bunch) Output File Graph Visualization Tool (e.g.dotty) Clustered
 Let A 1 A 2 A k be a set of non-**empty** subsets of S. We call a partition of set S if:
 plg.uwaterloo.ca/~migod/746/papers/iwpc98.ps

Reengineering of Configurations Based on Mathematical Concept.. - Snelting (1996) (Correct) (14 citations)

to infer configuration structures from existing **source** code. Our tool NORA/RECS will accept **source** code,
 have common code, where they should not. A **source** file can be made interference free by dividing it into
 bottom element (only the bottom element can have **empty** extent, as two concepts with equal extent and
 ftp.ips.cs.tu-bs.de/pub/local/softech/papers/tr-95-02.ps.gz

Xpvm 1.0 User's Guide - Kohl, Geist (1996) (Correct) (1 citation)

and displayed by XPVM. See Figure 1 for a **snapshot** of the XPVM interface.All of the above views
 : 3 2.2.1 Installing the XPVM **Source** Distribution :3 2.3 Using
 : 11 3.1 File Commands :
 dv.go.dlr.de/fresh/unix/src/misc/XPVM.ug.ps.Z

Measuring the Curvature of the Universe with Gravitational.. - Myeong-Gu Department (Correct)

in E/S0 galaxies and concluded that the HST **snapshot** survey data requires E/S0 galaxies to have
 gravitational lens systems as a function of the **source** redshift depends on the curvature of the universe
 than any correlation expected in open or even in **empty** universe. Therefore, the curvature effect alone
 physics.inje.ac.kr/~hwlee/ik5/proceeding/mgpark.ps

Setting Up the Files - The First (Correct)

up the files The first thing to do is set up **source** files and routines to hold your new code. The
 of writing a recorder driver. Setting up the files The first thing to do is set up **source** files and
 ftp.scri.fsu.edu/pub/lyons/ref080Part4.ps

Low-Cost Checkpointing and Failure Recovery in Mobile.. - Prakash, Singhal (Correct) (21 citations)

failures, periodic collection of a consistent **snapshot** of the system (checkpoint) is required.
 www.utdallas.edu/~ravip/papers/snapshot.tpds.ps

Specifications of EDPEPPS Toolset Prototype (DRAFT) - Delaitre Vekariya (Correct)

Figure 5: PVMGraph main window. Figure 5 Shows a **snapshot** of the animation window and the platform view of

real execution. In the simulation path each C/PVM **source** code obtained from the PVMGraph is processed
 Engine Pvmvis Pvmgraph Simpvm Translator Into File Numbers Maps File Names User
 www.cpc.wmin.ac.uk/~edpepps/reports/edpepps20.ps.gz

Development of the trip planning system prototype: Annotated and .. - McCormack (1994) (Correct)

system prototype Annotated and indexed **source** code reference by J.E. McCormack Division of
 agora.leeds.ac.uk/scs/doc/reports/1994/94_6.ps.Z

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[Google \(Web\)](#) [CSB](#) [DBLP](#)

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[The Performance of Consistent Checkpointing - Elnozahy, Johnson, Zwaenepoel \(1992\) \(Correct\) \(102 citations\)](#)was 5.8% Incremental checkpointing and **copy-on-write** checkpointing were the most effective
The checkpoint of a single process includes a **copy** of the process's address space and the state
was 5.8% Incremental checkpointing and **copy-on-write** checkpointing were the most effective techniques
arirang.snu.ac.kr/~woojeong/fault_paper/srds92.ps**One or more of the query terms is very common - only partial results have been returned. Try [Google \(CiteSeer\)](#).**[Machine-Independent Virtual Memory Management for... - Rashid, Tevanian, ... \(1987\) \(Correct\) \(98 citations\)](#)Systems, ACM October, 1987. Permission to **copy** without fee all or part of this material is
for direct commercial advantage, the ACM **copyright** notice and the title of the publication and
large, sparse virtual address spaces, **copy-on-write** virtual **copy** operations, **copy-on-write** and
www.cs.cornell.edu/cs614-sp98/berkeley-262/mach-vm.ps[Virtual Memory Primitives for User Programs - Appel, Li \(1991\) \(Correct\) \(85 citations\)](#)make portions of memory zeroed-on-demand or **copy-on-write**, and so on [18] In fact, there is a
(ASPLOS-IV) April 8-11, 1991. Permission to **copy** without fee all or part of this material is
the protection level (inaccessible, readonly, read-write) of pages, and allow user programs to handle
www.cs.berkeley.edu/~brewer/cs262/vm-tricks.pdf[Libckpt: Transparent Checkpointing under Unix - Plank, Beck, Kingsley, Li \(1995\) \(Correct\) \(78 citations\)](#)running Unix. It implements incremental and **copy-on-write** checkpointing, two optimizations
in libckpt through transparent incremental and **copy-on-write** checkpointing. In addition, we introduce
running Unix. It implements incremental and **copy-on-write** checkpointing, two optimizations well-known in
www.cs.utk.edu/~plank/plank/papers/CS-94-242.ps.Z[Cache Write Policies and Performance - Jouppi \(1991\) \(Correct\) \(77 citations\)](#)or **write-back** (also called store-in or **copy-back**) **Write-back** caches take advantage of the
from most algorithms is that presented by block **copy** operations where stores and loads are interleaved.
C E M B E R 1 9 9 1 WRL Research Report 91/12 Cache **Write** Policies and Performance Norman P. Jouppi d i g
i
ftp.digital.com/pub/Digital/WRL/research-reports/WRL-TR-91.12.ps.gz[Plan 9 from Bell Labs - Pike \(1990\) \(Correct\) \(65 citations\)](#)to a fresh hierarchy, fabricated on demand, using a **copy-on-write** scheme. 7] Thus, the file tree is split
of lost files by traditional commands such as file **copy** and comparison routines rather than by special
of magnetic disk, and a 300 gigabyte jukebox of **write-once** optical disk (WORM) This machine is to be
http.cs.berkeley.edu/~gribble/osprelims/F95/papers/plan9_old.ps.gz[A Caching Model of Operating System Kernel Functionality - Cheriton, Duda \(1994\) \(Correct\) \(56 citations\)](#)of a modern virtual memory system (such as the **copy-on-write** facility) the need to support many
of the memory system, not the software overhead of **copying**, queuing and delivering messages, as arises
application kernels handle the loading and **writeback** of these objects, implementing
guir.cs.berkeley.edu/projects/osprelims/papers/cachmodel-OSkernel.ps.gz[Competitive Distributed File Allocation - Awerbuch, Bartal, Fiat \(1993\) \(Correct\) \(44 citations\)](#)are issued in some vicinity, it is advisable to **copy** the relevant file to, or near, that vicinity.
how to go about finding the closest current **copy** of every file, how to update all replicas after a
that adapts on-line to a sequence of read and **write** requests whose locations and relative frequencies
www.math.tau.ac.il/~fiat/distpg.ps

Multi-level Caching in Distributed File Systems -or- Your.. - Muntz, Honeyman (1992) (Correct) (38 citations)
file in the cache of any other client holding a **copy**. **Write** operations are counted as cache misses on arise, e.g. when attempting to create a file in a **writelocked** directory. The name space was normalized records is processed until exhausted. All read and **write** requests are guaranteed to succeed at the server, cag.lcs.mit.edu/pub/dm/papers/muntz:trash.ps.gz

Shared Libraries in SunOS - Gingell, Lee, Dang, Weeks (1987) (Correct) (36 citations)
kernel-supplied facilities for file-mapping and "**copy-on-write**" sharing a revised link editor utilization through sharing a single physical **copy** of the text (code) of a given program among all facilities for file-mapping and "**copy-on-write**" sharing a revised link editor supporting swt-www.informatik.uni-hamburg.de/~friedri/sv/references/Shared_Libraries_In_Sun_OS.ps.gz

File System Design for an NFS File Server Appliance - Hitz, Lau, Malcolm (1995) (Correct) (35 citations)
USENIX Winter 1994 -San Francisco, California Copyright 1994 The USENIX Association. Reproduced by reserved. No part of this publication covered by copyright may be reproduced in any form or by any and Non-Volatile RAM .12 3.6. **Write** Allocation
a1972.g.akamai.net/7/1972/183/b49c83ce419dd0/www.netapp.com/ftp/3002.pdf

A Fast Mach Network IPC Implementation - Barrera (1991) (Correct) (33 citations)
for faster networks, requires an avoidance of **copying**, which can be achieved through virtual memory common data-dependent software cost is the cost of **copying** the data between buffers. Limiting the number in the Mach system, as local Mach IPC uses **copy-on-write** to avoid **copying** data until either the sender or ftp.cs.cmu.edu/project/mach/doc/published/ipc2.ps

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notice and the full citation on the first page. To **copy** otherwise, to republish, to post on servers or to it receives from its single input port, sending one **copy** to each output port. The packet data is not more powerful and complex configurations easier to **write**, including pull processing, which models packet www.pdos.lcs.mit.edu/papers/click:sosp99/paper.ps.gz

The Episode File System - Chutani, Anderson, Kazar, Leverett.. (1992) (Correct) (24 citations)
and sharing data with the original fileset using **copy-on-write** techniques. A cloned fileset is snapshot of a read-**write** fileset, implemented using **copy-on-write** techniques, and sharing data with the data with the original fileset using **copy-on-write** techniques. A cloned fileset is read-only, and is www.transarc.com/~ota/episode.ps.gz

IO-Lite: A Unified I/O Buffering and Caching System - Pai, Druschel, Zwaenepoel (1997) (Correct) (21 citations)
the network subsystem to share a single physical **copy** of the data safely and concurrently. Protection and read-only sharing. IOLite eliminates all **copying** and multiple buffering of I/O data, and enables OS and application buffers during I/O read and **write** operations 1 The presence of separate www.cs.rice.edu/~vivek/iol98/iol98.ps.gz

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protocol: each page has either a single read-**write** **copy** or several read-only copies before a node **writes** Information related to pages' status (access mode, **copyset**, owner) are kept, by a node called the page's protocol: each page has either a single read-**write** **copy** or several read-only copies before a node www.irisa.fr/EXTERNE/projet/solidor/doc/.ps95/stardust-srds.ps.gz

FORK - A High-Level Language for PRAMs - Hagerup, Schmitt, Seidl (1994) (Correct) (19 citations)
its local memory and instructions **READ** and **WRITE** to **copy** the contents of a given global memory cell to a cell in its local memory and instructions **READ** and **WRITE** to **copy** the contents of a given global memory can be executed in parallel. Secondly, we want to **write** programs for a shared-memory machine. Therefore, www-wjp.cs.uni-sb.de/sbpram/papers/forkpram.ps.gz

Exterminate All Operating System Abstractions - Engler, Kaashoek (1995) (Correct) (18 citations)
a full-featured virtual memory system with **copy-on-write**, memory-mapped I/O and other treats) frequent reads or random **writes**, whether to have **copy-on-write** or a large page size, etc. Unfortunately, a full-featured virtual memory system with **copy-on-write**, memory-mapped I/O and other treats) requires a www.stanford.edu/~engler/hotos-jeremiad.ps

Zero-Copy TCP in Solaris - Chu (1996) (Correct) (18 citations)

4. Www Url: www.usenix.org Zero-Copy Tcp In Solaris H. K. Jerry Chu Sunsoft, Inc.

Nevertheless, the performance improvement over CPU copying varies, depending on the host memory cache
www.usenix.org/publications/library/proceedings/sd96/full_papers/chu.ps

Virtual Memory Support for Multiple Page Sizes - Khalidi, Talluri, Nelson.. (1993) (Correct) (18 citations)

it forces the system to do all operations, such as **copy-on-write**, zero-fill on demand, and paging I/O at
 such as read-ahead, clustering [16]and **copy-on-write**. It is important to note that supporting
 the system to do all operations, such as **copy-on-write**, zero-fill on demand, and paging I/O at the new
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... 0xC04D 0x0A1F Figure 3: Both on-disk and in-memory inodes were retrofitted to support **snapshot** and **copy-on-write** by adding three fields: an **inode** epoch number ...

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... rw-rw- 1 root root 1, 5 Feb 23 1999 zero. ... them to do so without forcing extra **copy** operations on ... In particular, read/write permission should be checked using ...

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... faults -// prot_fault/s - protection faults -// cow_fault/s - **copy-on-write** ... 2 since

I am still getting -// fake write spikes. ... Version 1.13: Sep 24, 1999 Fix a ...

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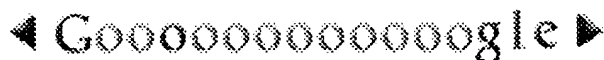
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